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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,711	07/15/2003	Hideki Kobayashi	Q76339	4933

23373 7590 02/05/2007  
SUGHRUE MION, PLLC  
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SUITE 800  
WASHINGTON, DC 20037

EXAMINER
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GOMA, TAWFIK A

ART UNIT	PAPER NUMBER
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2627

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/05/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/618,711

Applicant(s)

KOBAYASHI, HIDEKI

Examiner

Tawfik Goma

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) 3, 4, 7 and 8 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 5 and 6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

This action is in response to the amendment filed on 11/20/2006.

#### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muramatsu et al (US 5177729) in view of Lee (US2003/0048725)

Regarding claim 1, Muramatsu discloses an information recording/reproducing apparatus for reproducing comprising: a demodulator for performing a demodulation processing on a read signal read from said recording medium corresponding to each of the modulation schemes to generate a data signal for each demodulation processing (7, fig. 1 and 8 fig. 1); an error corrector for performing error correction processing on each of the data signals to generate a corrected data signal corresponding to each of the data signals (11, 12, fig. 1); and an output part for selectively outputting the corrected data signal corresponding to the data signal having the lowest error ratio among the data signals as a reproduced data (13, fig. 1). Muramatsu fails to disclose wherein the data signal is an address data, and that the address data is modulated using different modulation schemes. In the same field of endeavor, Lee discloses demodulating address data (par. 45) with different demodulators (101-103, fig. 10), wherein the demodulators correspond to different modulation schemes of the address data (par. 55). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the

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recording apparatus disclosed by Muramatsu with the address demodulators that correspond to different modulation schemes as taught by Lee. The rationale is as follows: One of ordinary skill in the art at the time of the applicant's invention would have been motivated to reproduce address data in order to properly reproduce the contents of the disc. Furthermore, one of ordinary skill in the art would have been motivated to reproduce data with demodulator's that correspond to modulation schemes of the recorded data in order to increase the density of the address information, thereby providing a wider user data area (see Lee abstract)

Regarding claim 2, Muramatsu further discloses an information recording/reproducing apparatus according further comprising: an error detector for performing error detection processing on each of the data signals to generate an error detection result signal including an error ratio of each of said data signals (col. 3 lines 61-66), and information indicating whether or not each of the data signals can be corrected by said error corrector (EP pointer information, col. 3 lines 65-67 thru col. 4 lines 1-7), wherein said an output part includes: a determining part for determining based on the error detection result signal an data signal which is correctable and has the lowest error ratio from said address data signals (col. 4 lines 12-16 and 13, fig. 1); and a selector for selecting a corrected data signal corresponding to the address data signal determined by said determining part from said corrected data signals to output the corrected address data signal selected thereby as the reproduced data (13, fig. 1, fig. 4 and col. 3 lines 66-68 thru col. 8 lines 1-7 and col. 4 lines 12-15). It would have been obvious for the data to be address data as taught by Lee for the same reasons as in claim 1.

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Method claims 5 and 6 are drawn to the method of using the corresponding apparatus claimed in claims 1 and 2. Therefore method claims 5 and 6 correspond to apparatus claims 1 and 2 and are rejected for the same reasons of obviousness applied above.

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-2 and 5-6 have been considered but are moot in view of the new ground(s) of rejection.


### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tawfik Goma whose telephone number is (571) 272-4206. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
T. Goma  
1/25/2007

  
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SUPERVISORY PATENT EXAMINER  
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